dc96000439
(cont.)

X Collection

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Barcode Number	Box Number	Total of Volumes	Call Number
LIBRARY OF CONGRESS 0 029 767 417 1	1949A	71	TH9237.U5 no. 1-71 (1937-59)
LIBRARY OF CONGRESS 0 029 767 418 3	1949B	92	TH9237.U5 no. 72-130 (1960-67)
LIBRARY OF CONGRESS 0 029 767 419 5	1949C-1950 1 BOX	31 10	TH9237.U5 no. 131 — TH9504.K2
LIBRARY OF CONGRESS 0 029 767 420 1	1951 1 BOX	10	TJ1.A6 (1952-53)
	1952	8	TJ1.I5 — TJ4.I51
LIBRARY OF CONGRESS 0 029 767 421 3	1953	61	TJ5.W6 no. 1-61 (1936-56)
LIBRARY OF CONGRESS 0 029 767 422 5	1954	3	TJ130.A2 no. 1-3 (1896-1936)
LIBRARY OF CONGRESS 0 029 767 423 7	1955 1 BOX	2	TJ130.B6 — TJ130.S61 no. 1 in overage box
	1956A	3	TJ130.W2 no. 1-3

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LIBRARY OF CONGRESS 0 029 767 424 9	1956B 1 BOX	1	TJ130.W2 (1892-1942)
	1957	5	TK146- TK161
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	1960	3	TJ181.5 no.1-3 (1938-49)
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LIBRARY OF CONGRESS 0 029 767 428 6	1962	11	TJ563- TJ735
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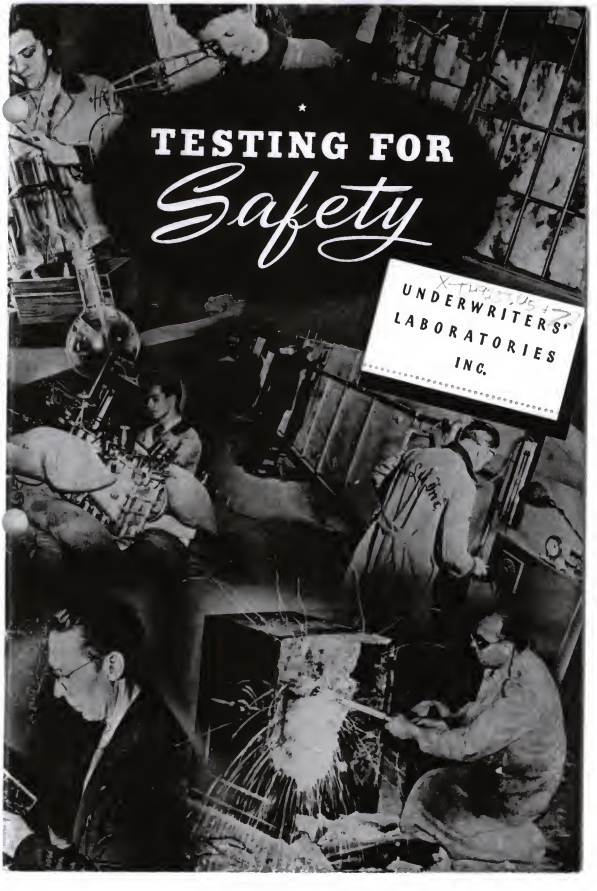

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13 X-ray equipment shall be so formed and assembled that it will have the strength and rigidity necessary to resist the abuses to which it is liable to be subjected without increasing its shock or fire hazard due to total or partial collapse with resulting reduction of spacings, loosening or displacement of parts, or other serious defects. The enclosure shall be so formed or provided with barriers that the supporting surface will be protected against ignition by falling brands or molten material in the event of failure of the equipment. 13

Revised paragraph 13 effective August 25, 1965 — Standard for X-Ray Equipment, Second Edition, UL 187

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20 An opening in an enclosure, including a perforated hole, a louver, and an opening protected by means of wire screening, expanded metal, or perforated covers, shall be of such size or shape that it will not permit passage of a rod having a diameter larger than ½ inch; except that if the distance between the uninsulated live metal parts and the nearest edge of the opening is more than four inches, the opening may be larger than that previously mentioned, provided that it will not permit passage of a rod having a diameter larger than ¾ inch. Larger openings may be permitted if the distance between the edge of the opening and uninsulated live metal part is at least five times the smaller dimension of the opening. 20

Revised paragraph 20 effective August 25, 1965 — Standard for X-Ray Equipment, Second Edition, UL 187

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23 A switch, a lampholder, an attachment-plug receptacle, a motor-attachment plug, or similar component shall be mounted securely and, except as noted in paragraphs 23A and 23B, shall be prevented from turning. See paragraph 24. 23

Revised paragraph 23 effective August 25, 1965 — Standard for X-Ray Equipment, Second Edition, UL 187

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53 If zinc-coated sheet steel has, in addition, a coat of alkyd-resin or other suitable paint, the zinc coating need not comply with the concluding requirement in paragraph 52, provided that an unpainted sample of the coated steel does not show a fixed deposit of copper after three 1-minute immersions in the copper sulphate solution. If two or more coats of such paint are employed, the unpainted sample need withstand only two 1-minute immersions without showing a fixed deposit of copper. 53

Corrected paragraph 53 effective July 28, 1965 — Standard for Industrial Control Equipment, Tenth Edition, UL 508

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115 The overload relay or a starter provided with an overload relay is to be tested with four feet of wire attached to each field-wiring terminal. The wire is to be Type R or T and of the smallest size having a current-carrying capacity of at least 125 percent of the maximum full-load motor-current rating of the current element; except that if the terminal will not receive that size of wire, or if the device is marked in accordance with paragraph 160B to limit the size of wires, the maximum allowable wire size is to be used. 115

Revised paragraph 115 effective July 28, 1965 — Standard for Industrial Control Equipment, Tenth Edition, UL 508

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122 Standard ampere ratings for fuses are 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 800, 1000, and 1200. 122

Revised paragraph 122 effective July 28, 1965 — Standard for Industrial Control Equipment, Tenth Edition, UL 508

122A If the fuse employed in accordance with paragraph 121 or 123 would require a rating greater than 600 amperes, two identical standard, non-renewable cartridge-type fuses will be used, connected in parallel. The fuseholder terminals for parallel arrangements are to be mounted on a single continuous pair of bus bars, or have an equivalent arrangement that will eliminate any potential difference between the terminals of the fuses. 122A

Added paragraph 122A effective July 28, 1965 — Standard for Industrial Control Equipment, Tenth Edition, UL 508

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Subject 174 **November 18, 1965**

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38A A water heater intended for permanent connection to a grounded conductor of a power-supply circuit shall have one terminal or lead identified for the connection of such conductor. No switch or over-current-protective device of the single-pole type shall be connected in the grounded conductor. 38A

39 A terminal intended for the connection of the grounded power-supply conductor shall be of, or plated with, metal that is substantially white in color, and that terminal shall be readily distinguishable from the other terminal or terminals; or proper identification of that terminal shall be clearly shown in some other manner (such as on an attached wiring diagram). The surface of a lead intended for the connection of a grounded power-supply conductor shall be white or natural grey, and shall be readily distinguishable from the other lead or leads. 39

39A The surface of an insulated lead intended solely for the connection of an equipment-grounding conductor shall be green or shall be green with a yellow stripe, and no other lead shall be so identified. 39A

Added paragraph 38A, revised paragraph 39, and added paragraph 39A effective November 18, 1965 — Standard for Electric Storage-Tank Water Heaters, Second Edition, UL 174

---

47 The insulation on a conductor shall be suitable for the temperature to which it will be subjected in service. Wire employed for internal wiring shall be recognized as being suitable for the purpose. 47

Revised paragraph 47 effective November 18, 1965 — Standard for Electric Storage-Tank Water Heaters, Second Edition, UL 174

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Subject 891

5 DEC - 2 1965

Santa Clara, California
November 22, 1965

To: Electrical Council of Underwriters' Laboratories, Inc.,
and
Manufacturers of Labeled Dead-Front Switchboards

Subject: Dead-Front Switchboards for Service Equipment Use.

Responses to our bulletin of September 14 indicate that paragraph A17 would result in some measure of difficulty if made effective at this time. We are therefore delaying the effective date of this requirement until December 1, 1966, by which time it is expected that the problem may be resolved.

With the foregoing exception, there have been no adverse comments and we are therefore announcing that, effective immediately, Dead-Front Switchboards complying with the remaining requirements of the attached Appendix are eligible for the marking "Suitable for Use as Service Equipment". Such constructions should be submitted for consideration to our inspection staff in the usual manner.

UNDERWRITERS' LABORATORIES, INC.

O. G. Wedekind

O. G. WEDEKIND
Associate Managing Engineer
Electrical Department

X-TH9237.US
101

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Subjects 45, 73, 82,
561, 562

Chicago, Illinois
December 1, 1965

DEC - 3
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TO: Electrical Council of Underwriters' Laboratories, Inc.,
Manufacturers of Listed Electric Tools,
Manufacturers of Listed Gardening Appliances,
Manufacturers of Listed Floor-Finishing Machines, and
Manufacturers of Listed Cleaning Machines

SUBJECT: Requirements for Double-Insulated Equipment.

In a bulletin dated June 16, 1964, the Laboratories published requirements for gardening appliances and household-type wet scrubbers provided with double insulation and in a bulletin dated June 17, 1964, a similar step was taken for electric tools. In bulletins dated May 14 and August 6, 1965, proposals were made for revising some of the requirements applicable to double-insulated electric tools, and in the bulletin of August 9, 1965, proposals for revising certain requirements for double-insulated gardening appliances and wet scrubbers were submitted.

After consideration of the comments received in response to those proposals, it has been concluded that the requirements should be amended as proposed, except as indicated below. Further, it was decided to revert to the original practice of publishing the requirements for all double-insulated equipment in a single document. Accordingly, you will find attached a draft that gives the requirements for all double-insulated equipment that the Laboratories is now prepared to recognize.

With reference to the proposed new paragraph 5A applying to gardening appliances and given in the bulletin of August 9, 1965, it was concluded that this proposal should be revised by adding the words "THAT ARE ACCESSIBLE DURING NORMAL OPERATION" to the text originally proposed for this paragraph.

UNDERWRITERS' LABORATORIES, INC.

N. M. McCorkle

N. M. McCORKLE
Standards Engineer

X-TH9237.U5
#103

Subject 621 February 15, 1966

FEB 23

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Instrumentation

TEMPERATURE MEASUREMENTS

172A Temperatures are to be measured by thermocouples except when the resistance method is authorized. See paragraph 171. The thermocouples shall consist of wires not larger than No. 24 Awg and not smaller than No. 30 Awg. The thermocouples and related instruments shall be accurate and calibrated in accordance with good laboratory practice. The thermocouple wire shall conform to the requirements for "special" thermocouples as listed in the Table of Limits of Error of Thermocouples in American Standard C-96 "Temperature Measurement Thermocouples."

172B A thermocouple junction and adjacent thermocouple lead wire are to be securely held in good thermal contact with the surface of the material whose temperature is being measured. In most cases, adequate thermal contact will result from securely taping or cementing the thermocouple in place; but where a metal surface is involved, brazing or soldering the couple to the metal may be necessary.

172C Where thermocouples are used in the determination of temperatures in connection with the heating of electrical equipment, it is a standard practice of Underwriters' Laboratories, Inc. to employ thermocouples consisting of No. 30 Awg iron and constantan wires and a potentiometer type of indicating instrument. This equipment will be used by the Laboratories whenever referee temperature measurements by means of thermocouples are necessary.

PRESSURE MEASUREMENTS

172D Pressure gauges are to be attached in such manner as to prevent leakage. Special fittings for direct connection to the system or minimum lengths of ¼-inch outside diameter commercial capillary tubing may be employed for gauge connections. Volume of the pressure-measuring gauge and lines shall be held to a minimum. All joints in the gauge system are to be leakage tested.

172E Whenever practicable, the gauge line valves are to remain closed until pressure measurements are necessary. Opening of the gauge line valves shall cause no significant change in the electrical input of the system. High-side gauges and lines may be heated above the saturation temperature corresponding to the expected pressure or may be precharged with the proper liquid refrigerant to minimize the effect of opening the gauge line valves.

Paragraphs 172A–172E inclusive added February, 1966—Standard for Ice Cream Freezers and Soda Fountain Units—UL 621, First Edition.

Subject 563 February 15, 1966

FEB 23 1966
X - TH 9237
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Performance

Instrumentation

TEMPERATURE MEASUREMENTS

165A Temperatures are to be measured by thermocouples except when the resistance method is authorized. See paragraph 178. The thermocouples shall consist of wires not larger than No. 24 Awg and not smaller than No. 30 Awg. The thermocouples and related instruments shall be accurate and calibrated in accordance with good laboratory practice. The thermocouple wire shall conform to the requirements for "special" thermocouples as listed in the Table of Limits of Error of Thermocouples in American Standard C-96 "Temperature Measurement Thermocouples."

165B A thermocouple junction and adjacent thermocouple lead wire are to be securely held in good thermal contact with the surface of the material whose temperature is being measured. In most cases, adequate thermal contact will result from securely taping or cementing the thermocouple in place; but where a metal surface is involved, brazing or soldering the couple to the metal may be necessary.

165C Where thermocouples are used in the determination of temperatures in connection with the heating of electrical equipment, it is a standard practice of Underwriters' Laboratories, Inc. to employ thermocouples consisting of No. 30 Awg iron and constantan wires and a potentiometer type of indicating instrument. This equipment will be used by the Laboratories whenever referee temperature measurements by means of thermocouples are necessary.

PRESSURE MEASUREMENTS

165D Pressure gauges are to be attached in such manner as to prevent leakage. Special fittings for direct connection to the system or minimum lengths of ⅛-inch outside diameter commercial capillary tubing may be employed for gauge connections. Volume of the pressure-measuring gauge and lines shall be held to a minimum. All joints in the gauge system are to be leakage tested.

165E Whenever practicable, the gauge line valves are to remain closed until pressure measurements are necessary. Opening of the gauge line valves shall cause no significant change in the electrical input of the system. High-side gauges and lines may be heated above the saturation temperature corresponding to the expected pressure or may be precharged with the proper liquid refrigerant to minimize the effect of opening the gauge line valves.

Paragraphs 165A–165E inclusive added February, 1966 — Standard for Ice Makers — UL 563, First Edition.

X-TH 9237

Subject 541 February 15, 1966 , u5

#105

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Instrumentation

TEMPERATURE MEASUREMENTS

148A Temperatures are to be measured by thermocouples except when the resistance method is authorized. See paragraph 155. The thermocouples shall consist of wires not larger than No. 24 Awg and not smaller than No. 30 Awg. The thermocouples and related instruments shall be accurate and calibrated in accordance with good laboratory practice. The thermocouple wire shall conform to the requirements for "special" thermocouples as listed in the Table of Limits of Error of Thermocouples in American Standard C-96 "Temperature Measurement Thermocouples."

148B A thermocouple junction and adjacent thermocouple lead wire are to be securely held in good thermal contact with the surface of the material whose temperature is being measured. In most cases, adequate thermal contact will result from securely taping or cementing the thermocouple in place; but where a metal surface is involved, brazing or soldering the couple to the metal may be necessary.

148C Where thermocouples are used in the determination of temperatures in connection with the heating of electrical equipment, it is a standard practice of Underwriters' Laboratories, Inc. to employ thermocouples consisting of No. 30 Awg iron and constantan wires and a potentiometer type of indicating instrument. This equipment will be used by the Laboratories whenever referee temperature measurements by means of thermocouples are necessary.

PRESSURE MEASUREMENTS

148D Pressure gauges are to be attached in such manner as to prevent leakage. Special fittings for direct connection to the system or minimum lengths of 1/8-inch outside diameter commercial capillary tubing may be employed for gauge connections. Volume of the pressure-measuring gauge and lines shall be held to a minimum. All joints in the gauge system are to be leakage tested.

148E Whenever practicable, the gauge line valves are to remain closed until pressure measurements are necessary. Opening of the gauge line valves shall cause no significant change in the electrical input of the system. High-side gauges and lines may be heated above the saturation temperature corresponding to the expected pressure or may be precharged with the proper liquid refrigerant to minimize the effect of opening the gauge line valves.

Paragraphs 148A–148E inclusive added February, 1966 — Standard for Vending Machines, Coin-Operated, Refrigerated — UL 541, First Edition.

X-TH7237

The accompanying sticker should be attached to the appropriate page in your copy of the Standard named in small print at the foot of the sticker. This revision becomes effective immediately.

#106

Underwriters' Laboratories, Inc.
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Performance

Instrumentation

TEMPERATURE MEASUREMENTS

172A Temperatures are to be measured by thermocouples except when the resistance method is authorized. See paragraph 183. The thermocouples shall consist of wires not larger than No. 24 Awg and not smaller than No. 30 Awg. The thermocouples and related instruments shall be accurate and calibrated in accordance with good laboratory practice. The thermocouple wire shall conform to the requirements for "special" thermocouples as listed in the Table of Limits of Error of Thermocouples in American Standard C-96 "Temperature Measurement Thermocouples."

172B A thermocouple junction and adjacent thermocouple lead wire are to be securely held in good thermal contact with the surface of the material whose temperature is being measured. In most cases, adequate thermal contact will result from securely taping or cementing the thermocouple in place; but where a metal surface is involved, brazing or soldering the couple to the metal may be necessary.

C Where thermocouples are used in the determination of temperatures in connection with the heating of electrical equipment, it is a standard practice of Underwriters' Laboratories, Inc. to employ thermocouples consisting of No. 30 Awg iron and constantan wires and a potentiometer type of indicating instrument. This equipment will be used by the Laboratories whenever referee temperature measurements by means of thermocouples are necessary.

PRESSURE MEASUREMENTS

172D Pressure gauges are to be attached in such manner as to prevent leakage. Special fittings for direct connection to the system or minimum lengths of ¼-inch outside diameter commercial capillary tubing may be employed for gauge connections. Volume of the pressure-measuring gauge and lines shall be held to a minimum. All joints in the gauge system are to be leakage tested.

172E When practicable, the gauge line valves are to remain closed until pressure measurements are necessary. Opening of the gauge line valves shall cause no significant change in the electrical input of the system. High-side gauges and lines may be heated above the saturation temperature corresponding to the expected pressure or may be precharged with the proper liquid refrigerant to minimize the effect of opening the gauge line valves.

Paragraphs 172A–172E inclusive added February, 1966 — Standard for Commercial Refrigerators — UL 471, Second Edition.

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Instrumentation

Temperature Measurements

113A Temperatures are to be measured by thermocouples except where the resistance method is authorized. See paragraph 118. The thermocouples shall consist of wires not larger than No. 24 Awg and not smaller than No. 30 Awg. The thermocouples and related instruments shall be accurate and calibrated in accordance with good laboratory practice. The thermocouple wire shall conform to the requirements for "special" thermocouples as listed in the Table of Limits of Error of Thermocouples in American Standard C-96 "Temperature Measurement Thermocouples."

113B A thermocouple junction and adjacent thermocouple lead wire are to be securely held in good thermal contact with the surface of the material whose temperature is being measured. In most cases, adequate thermal contact will result from securely taping or cementing the thermocouple in place; but where a metal surface is involved, brazing or soldering the couple to the metal may be necessary.

13C Where thermocouples are used in the determination of temperatures in connection with the heating of electrical equipment, it is a standard practice of Underwriters' Laboratories, Inc. to employ thermocouples consisting of No. 30 Awg iron and constantan wires and a potentiometer type of indicating instrument. This equipment will be used by the Laboratories whenever referee temperature measurements by means of thermocouples are necessary.

Pressure Measurements

113D Pressure gauges are to be attached in such manner as to prevent leakage. Special fittings for direct connection to the system or minimum lengths of ⅛-inch outside diameter commercial capillary tubing may be employed for gauge connections. Volume of the pressure-measuring gauge and lines shall be held to a minimum. All joints in the gauge system are to be leakage tested.

113E Whenever practicable, the gauge line valves are to remain closed until pressure measurements are necessary. Opening of the gauge line valves shall cause no significant change in the electrical input of the system. High-side gauges and lines may be heated above the saturation temperature corresponding to the expected pressure or may be precharged with the proper liquid refrigerant to minimize the effect of opening the gauge line valves.

Paragraphs 113A–113E inclusive added February, 1966 — Standard for Oxygen Therapy Equipment, Refrigerated — UL 416, First Edition.

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Standards for Safety

CHRISTMAS-TREE AND DECORATIVE-LIGHTING OUTFITS

UL 588

JANUARY 1966

ASA C33.25-1966

UDC 688.76/.767:614.8

January 21, 1966

X-TH7237
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GATE VALVES FOR FIRE-PROTECTION SERVICE

UL 262

JUNE, 1966

Subject 98 January 12, 1966

X-TH9239
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Underwriters' Laboratories, Inc.
1285 Walt Whitman Road, Melville, Long Island, N. Y. 11749

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205 The horsepower rating of an enclosed switch rated at 100 horsepower or less shall be ½, ¾, 1, 1½, 2, 3, 5, 7½ 10, 15, 20, 25, 30, 40, 50, 60, 75, or 100 horsepower, or an appropriate combination of such values at different voltages. 205

206 The horsepower rating of an enclosed switch incorporating fuse-holders and rated at 100 horsepower or less shall be no more than that indicated in the following table. 206

Revised paragraphs 205 and 206 effective January 12, 1966 — Standard for Enclosed Switches, Seventh Edition, UL 98

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210 *Deletion of paragraph 210 effective January 12, 1966.* 210

Standard for Enclosed Switches, Seventh Edition, UL 98

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GAS-TUBE-SIGN AND IGNITION CABLE

UL 814

JANUARY, 1966

ASA C33.23–1966

UDC 621.315.322.2:659.135

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UL 48-1966

USAS C33.35-1966
UDC 628.974:614.8
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ELECTRICALLY ILLUMINATED SCALES

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USAS C33.16 - 1966
UDC 621.3-781:681.26:621.3.085.49
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ELECTRODE RECEPTACLES FOR GAS-TUBE SIGNS

UL 879

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ASA C33.24-1966
UDC 621.3.032:659.135
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CHRISTMAS-TREE AND DECORATIVE-LIGHTING OUTFITS

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SNAP SWITCHES
FOR USE IN HAZARDOUS LOCATIONS
UL 894

JANUARY, 1966

ASA C33.29-1966
UDC 621.316.542 : 614.8
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UL 859-1966

USAS C33.33-1966 (2nd Ed.)
UDC 687.53:621.365
November 9, 1966

REVISION OF
USAS C33.33-1966 (1st Ed.)
March 14, 1966

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DEAD-FRONT SWITCHBOARDS

UL 891

Fifth Edition

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USAS C33.34-1966
UDC 621.316.35
November 9, 1966

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ASA C33.30-1966
UDC 621.316.7 : 614.8
January 21, 1966

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KNIFE SWITCHES

UL 363

FEBRUARY, 1966

ASA C33.31-1966
UDC 621.316.542.11
February 16, 1966

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LAMPHOLDERS, STARTERS, AND STARTER HOLDERS FOR FLUORESCENT LAMPS

UL 542

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ASA C33.32-1966

UDC 621.37:621.316.58/.71

March 14, 1966

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Subjects 758, 83, and 62

Melville, N. Y.
February 1, 1966

To: Electrical Council of Underwriters' Laboratories, Inc.,
and
Manufacturers of Labeled Appliance-Wiring Material, Thermoplastic-Insulated Wires, and Thermoplastic-Insulated Fixture Wires

Subject: Revised Requirements for Machine-Tool Wires and Cables

Accompanying this bulletin is a copy of the February 1, 1966, Provisional Requirements for Machine-Tool Wires and Cables, which supersedes the September 3, 1963, issue of the requirements and becomes effective immediately.

The requirements have been prepared as the result of careful study by the Laboratories' staff. They have been reviewed by and discussed with the manufacturers named above and with others known to have an interest in the requirements. They have been reviewed by the Laboratories' Electrical Council, which is comprised largely of inspection authorities throughout the United States.

The requirements have resulted from the Laboratories' bulletins of November 1 and December 3, 1965, and the comments received in response thereto.

Interested manufacturers who now label Styles 1316-1321 of appliance-wiring material, thermoplastic-insulated wires, and/or thermoplastic-insulated fixture wires should write to Mr. H. E. Reymers at Melville, Mr. R. W. Eckardt at Chicago, or J. S. Capps at Santa Clara requesting Label Service on all the wires and cables covered by the requirements. Each letter should include a statement authorizing an expenditure of $60.00 for the necessary revision of our records. Those manufacturers who now have temporary Label Service on 14 Awg - 500 MCM single-conductor machine-tool wires insulated with the reduced thickness of PVC and covered with a nylon jacket need not write in or authorize any additional expenditure. Their Label Service Procedures are now being changed to cover all of the wires and cables included in the requirements.

UNDERWRITERS' LABORATORIES, INC.

N. M. McCorkle,
Standards Engineer

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Subject 57

Chicago, Illinois
December 15, 1966

To: Holders of the Standard for Electric Lighting Fixtures

Subject: New Edition of the Standard

Accompanying this letter is a copy of the new edition of Underwriters' Laboratories, Inc. Standard for Electric Lighting Fixtures, UL57-1966. This is the tenth edition, superseding the ninth edition dated August, 1959, and it becomes effective immediately.

The new edition has been prepared to incorporate material that has been discussed in various bulletins, as well as other explanatory material. Included are new sections covering sectional lighting equipment and air-handling fixtures, as well as requirements for electric-discharge-lamp fixtures designed for surface mounting on low-density cellulose fiberboard. In addition, there has been considerable editorial revision, and rearrangement of requirements intended to make the standard easier to use.

The attached table has been prepared to permit a comparison of the ninth and tenth editions, and to indicate wherein revisions have been made.

UNDERWRITERS' LABORATORIES, INC.

N. M. McCorkle

N. M. McCORKLE
Standards Engineer

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1966

ELECTRICAL CONSTRUCTION MATERIALS LIST

MAY 1966

SEE ALSO ELECTRICAL APPLIANCE AND UTILIZATION EQUIPMENT LIST